



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/882,301	06/18/2001	Sylvain Joyeau	1807.1033	6878

5514 7590 07/18/2003

FITZPATRICK CELLA HARPER & SCINTO
30 ROCKEFELLER PLAZA
NEW YORK, NY 10112

EXAMINER

CHEN, ALAN S

ART UNIT	PAPER NUMBER
----------	--------------

2182

DATE MAILED: 07/18/2003

8

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/882,301

Applicant(s)

JOYEAU ET AL.

Examiner

Alan S Chen

Art Unit

2182

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-26 is/are pending in the application.
- 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) ____ is/are allowed.
- 6) ☒ Claim(s) 1-3 and 16-18 is/are rejected.
- 7) ☒ Claim(s) 1-15, 17, and 19-26 is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☒ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 6/18/01 is/are: a) ☐ accepted or b) ☒ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on ____ is: a) ☐ approved b) ☐ disapproved by the Examiner.
- If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☒ Certified copies of the priority documents have been received in Application No. 09882301.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449) Paper No(s) ____.
- 4) ☐ Interview Summary (PTO-413) Paper No(s). ____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____.

DETAILED ACTION

Drawings

1. The drawings are objected to because they are replete with unclear labeling and inconsistent references. Examples of some problems in the drawings are:

- The bus labels in Fig. 4 are unclear. Specifically, the labels “@”, “Data”, “filter”, and “modified data” labels should be modified for clarity or omitted to prevent misinterpretation.

- Elements 2 in Figs. 1 and 2 are not consistent.

- Failing to comply with 37 CFR 1.84(p)(4) because reference character “9A” has been used to designate physical device interface (Fig. 7), Disk Interface (Fig. 1 and 2), Device n (Fig. 3), and interface of the virtual device physical io-pages (Fig. 5).

- Labels for elements 3, 28, 25, and 4 should be in English.

- Parts of Fig. 7 and 8 are difficult to read from poor printing on paper.

- The word “initialisation” in Fig. 6, element E1. The “s” should be replaced with a “z”.

A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

Specification

2. The disclosure is objected to because of the following informalities:

The specification is replete with grammatical errors, misspellings and improper page formatting. Examples of some errors used in the specification are:

- The word “initialisation”. The “s” should be replaced with a “z”.

Art Unit: 2182

-Improper indentation on page 4 and 5 of specification.

-The lack of proper section headings, such as "Background of Invention",
"Summary of Invention", etc.

Appropriate correction is required.

Claim Objections

3. Claims 4-15 and 19-26 are objected to under 37 CFR 1.75(c) as being in improper form because a multiple dependent claim cannot depend from any other multiple dependent claim. See MPEP § 608.01(n). Accordingly, the claims have not been further treated on the merits.

4. Claims 1-3 and 17 objected to because of the following informalities: reference to elements should be accompanied with reference to the specific figure the elements are located in. This is because not all figures contain the element(s) being referenced.

Appropriate correction is required.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

5. Claims 1-3 and 16-18 are rejected under 35 U.S.C. 102(b) as being anticipated by No. 5,444,853 to Lentz.

In reference to Claims 1 and 16, Lentz discloses a device and method (Fig. 4, element 400) for sharing and controlling access to peripherals comprising a CPU (Fig. 4, element 126) and at least one I/O peripheral (Fig. 4, element 401) having a physical

Art Unit: 2182

control interface (Fig. 4 and 12, element 402) accessible to the processor, characterized in that said device has:

- means for faithful reproduction, in the form of virtual interface (Fig. 4, elements 406, 408, and 410) of the physical interface of at least one peripheral (Fig. 4, element 401)

- means of interception by the virtual interface of all requests and data exchanged between CPU and peripheral (Fig. 4, element 404, 420, 422, and 424) controlled by a pre-determined application (Fig. 6) executed in the system.

- means of possible modification of said requests and data intercepted (Fig. 4, element 422) according to at least one pre-determined criterion (Fig. 7 and 8).

In reference to Claim 2 and 17, Lentz discloses a device and method characterized in that the means of reproducing the physical interface in virtual form comprise:

- a memory space (Fig. 4, element 102) reserved for the image of the physical interface.

- a means for linking the addresses of these memory spaces to the physical interface address (column 6, lines 14-26).

- a means for specifying the filtering functions to be applied to the memory area (Fig. 412, 414, and 416 and column 5, lines 56-68 and column 6, lines 14-26).

In reference to Claim 3, Lentz discloses a device characterized in that the interception means comprise:

- an interface with the bus (Fig. 1, element 120) connected to the CPU (Fig. 1, element 122 and 126) and an interface with the bus (Fig. 1, elements 106, 112, and 116) connected to the peripherals (Fig. 1, elements 104, 108, 114, and 118).

Art Unit: 2182

-an address decoding means (column 8, lines 59-68 and column 9, lines 1-9).

In reference to Claim 18, Lentz discloses a method dependent on Claim 16, that comprises a step of selecting at least one filtering pattern (criterion) for the data included in the request (Fig. 7 and 8), according to the decoded address in the request (start and end address).

Conclusion

6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

The following patents are cited to further show the state of the art with respect to mapping of virtual addresses to physical addresses.

U.S. Patent No. 5,815,647 to Morris

U.S. Patent No. 5,915,124 to Buckland et al.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Alan S Chen whose telephone number is 703-605-0708. The examiner can normally be reached on M-F 8:30am - 5:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jeffrey A Gaffin can be reached on 703-308-3301. The fax phone numbers for the organization where this application or proceeding is assigned are 703-746-7239 for regular communications and 703-746-7238 for After Final communications.

Art Unit: 2182

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-305-3900.

asc
July 14, 2003



JEFFREY GAFFIN
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2100